

Serial No. 10/679,820

1. (cancelled)

2. (cancelled)

3. (currently amended) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct;

a dam extending into air flow through the duct for directing water flowing on an air inlet duct wall toward the drain; the dam comprising a strip with a perforated conduit associated therewith, and

means for lowering pressure in the drain to a pressure less than air pressure in the duct adjacent to the drain.

4. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct;

a dam extending into air flow through the duct for directing water toward the drain, wherein the dam comprises a strip with a perforated tube in the strip;

Serial No. 10/679,820

and

means for lowering pressure in the drain to a pressure less than air pressure in the duct adjacent to the drain.

5. (original) Apparatus according to claim 3 wherein the dam comprises a strip extending diagonally across air flow through the duct and wherein a drain is near the downstream end of the strip.

6. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain on a non-horizontal wall portion above the bottom of the air duct connecting to the inside of the duct; and

means for lowering pressure in the drain to a pressure less than air pressure in the duct adjacent to the drain, and further comprising a dam extending into air flow through the duct for directing water toward the drain.

Serial No. 10/679,820

7. (currently amended) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct, and
a dam extending into air flow through the duct for
directing water flowing toward the dam, and wherein the
dam comprises a strip with a perforated ~~tube~~ conduit in
the strip; and

means for lowering pressure in the drain to a
pressure less than air pressure in the duct adjacent to
the drain.

8. (original) Apparatus according to claim 6 wherein
the dam comprises a strip extending diagonally across
the duct and wherein a drain is near the lower end of
the strip.

9. (cancelled)

10. (previously presented) Apparatus for removing
water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct,

Serial No. 10/679,820

wherein the drain is located on a compressor inlet cone within the inlet air duct, and

means for lowering pressure in the drain to a pressure less than air pressure in the duct adjacent to the drain.

11. (original) Apparatus according to claim 10 wherein the drain comprises a dam around at least a portion of the cone and a perforated tube adjacent to the dam.

12. (original) Apparatus according to claim 10 wherein the drain comprises a hollow cone and a perforated or porous surface on the cone.

13. (cancelled)

14. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct;

a dam extending into air flow through the duct and a perforated tube in the dam; and

Serial No. 10/679,820

a suction device for air and/or water connected to the drain.

15. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct, wherein the drain comprises a perforated tube extending across a face of the duct; and

a suction device for air and/or water connected to the drain.

16. (previously presented) Apparatus according to claim 15 further comprising a dam diverting water to the perforated tube.

17. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct, wherein the drain comprises a perforated strut in the duct; and

a suction device for air and/or water connected to

Serial No. 10/679,820

the drain.

18. (previously presented) Apparatus for removing water from compressor inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a drain connecting to the inside of the duct, wherein the drain is on a non-horizontal wall portion of the air duct;

a dam extending into air flow through the duct for directing water toward the drain; and a suction device for air and/or water connected to the drain.

19. (original) Apparatus according to claim 18 wherein the dam comprises a strip with a perforated tube in the strip.

20. (original) Apparatus according to claim 18 wherein the dam comprises a strip extending diagonally across the duct and wherein a drain is near the lower end of the strip.

21. (cancelled)

Serial No. 10/679,820

22. (previously presented) Apparatus for removing water from compressor inlet air comprising:

- a compressor;
- an air inlet duct to the compressor;
- a drain connecting to the inside of the duct on a compressor inlet cone within the duct; and
- a suction device for air and/or water connected to the drain.

23. (previously presented) Apparatus according to claim 22 wherein the drain comprises a dam around at least a portion of the compressor inlet cone and a perforated tube adjacent to the dam.

24. (previously presented) Apparatus according to claim 22 wherein the drain comprises a hollow cone and a perforated or porous surface on the cone.

25. (previously presented) Apparatus for removing water from compressor inlet air comprising:

- a compressor;
- an air inlet duct to the compressor;
- an inlet cone for the compressor within the air inlet duct;
- a drain connecting to the inside of the duct on a

Serial No. 10/679,820

surface of the inlet cone; and

a suction device for air and/or water connected to the drain.

26. (currently amended) Apparatus according ~~the~~ to claim 25 wherein the inlet cone is hollow and the drain comprises a porous or perforated surface on the inlet cone.

27. (original) Apparatus for removing water from compressor inlet air comprising:

a compressor;

hollow inlet air guide vanes for the compressor, wherein the guide vanes have a perforated or porous surface; and

a suction device for water and/or air connected to the hollow interior of the guide vanes.

28. (cancelled)

29. (previously presented) Apparatus for removing water from compress inlet air comprising:

a compressor;

an air inlet duct to the compressor;

a hollow inlet cone for the compressor within the

Serial No. 10/679,820

air inlet duct, wherein the inlet cone has a perforated or porous surface; and

a suction device for water and/or air connected to the hollow interior of the inlet cone.

30. (original) Apparatus according to claim 29 wherein only a downstream portion of the inlet cone is porous or perforated.

31. (currently amended) A method of removing water from a compressor inlet air duct comprising:

diverting water flowing along a wall in the general direction of air flow inside the duct to a drain; and

sucking water from ~~the drain~~ a conduit within the duct upstream of the compressor with a pressure less than air pressure in the duct adjacent to the drain.

32. (original) A method according to claim 31 wherein the drain is on a floor of the duct and further comprising shielding at least a portion of the floor of the duct with a perforated sheet or screen.

Serial No. 10/679,820

33. (currently amended) A method according to claim 31 wherein said diverting comprises placing a dam across a portion of the air flow through the duct and adjacent to the drain.

34. (cancelled)

35. (previously presented) A method of removing water from a compressor inlet air duct comprising:

sucking water through a perforated tube inside the duct; and

sucking water from the tube with a pressure less than air pressure in the duct adjacent to the tube.

36. (cancelled)

37. (previously presented) A method of removing water from compressor inlet air comprising;

sucking water from a hollow strut upstream from the compressor with a pressure less than air pressure adjacent to the suction inlet.

Serial No. 10/679,820

38. (previously presented) A method of removing water from compressor inlet air comprising:

sucking water from a hollow compressor inlet cone within and inlet air duct upstream from the compressor with a pressure less than air pressure adjacent to the suction inlet.

39. (currently amended) A method of removing water from compressor inlet air comprising:

sucking water from a hollow inlet guide vane upstream from the compressor with a pressure less than air pressure adjacent to the suction inlet.